



## DREAM JOINT SPECIFICATIONS Rev No.5

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### GENERAL

The concept of the “DREAM JOINT” is to offer a wider angle of plantar and dorsiflexion than existing ankle components so that the user can experience a free and smooth gait motion. This innovative mechanism was created by using a frictional bearing one-way clutch. The metal used is Stainless Steel, SUS304 grade, to adequately hold body weight when used for custom AFO applications. The “Dream Joint” is also applicable for applications like knee orthoses (Refer to “**DJ-Knee**”).

We supply two models of the “Dream Joint”; **Type A** with a Plantarflexion stop containing three positions of plantarflexion, and **Type B** which is a free Plantarflexion option. The dorsiflexion Range is 100 degrees for both A and B types. The Dream Joint further comes in three fixed resistance strengths; Torque #3, #2, and #1. A “**Custom-Jig**” is offered separately for custom brace applications to keep the componentry aligned during fabrication.

### JOINT KIT

The joint kit package contains;

- One pair of Joint Cores / Four Holding Arms / 12 mounting Screw
- Weight per kit: approx. 430g

### STRENGTH OF RESISTANCE

Torque measured at 15cm from the center of the core:

<u>Grade</u>	<u>Torque at 30,000 to 300,000 cycles per one core</u>
# 1	0.9 to 1.5 Nm
# 2	1.6. to 1.8 Nm (built in stock Pre-fab AFO Dream Brace Sizes M and S)
# 3	2.0 to 3.2 Nm (built in stock Pre-fab AFO Dream Brace sizes L and LL)
# 4	Under development

NOTE: \*Multiply torque by 2 for the total torque value of a completed AFO

### CAUTION

- Do not disassemble the joint as this is precision. Once disassembled, we will not be responsible.
- Joint core must not be dipped in water nor get wet.
- Do not add oil to the joint.
- When to replace core head, replace both right & left core at the same time.

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